

| | | |
|--|--------------------------|-----------------------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S) | Complete if Known | |
| | Application Number | Unknown |
| | Filing Date | Herewith |
| | First Named Inventor | D'Evelyn |
| | Art Unit | Unknown |
| Examiner Name | Unknown | |
| Sheet 1 of 3 | Attorney Docket No. | 132852-1/GCRZ 2 00025 |

U.S. PATENT DOCUMENTS

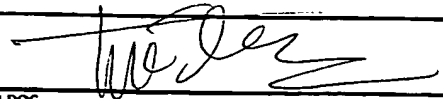
| Examiner Initials* | Cite No. | Document No. Number-Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|----------|--|-----------------------------|---|---|
| TT | AA | US-5,578,839 | 11-26-1996 | Nakamura et al. | |
| TT | AB | US-5,637,531 | 06-10-1997 | Porowski et al. | |
| TT | AC | US-5,770,887 | 06-23-1998 | Tadatomo et al. | |
| TT | AD | US-5,796,771 | 08-18-1998 | DenBaars et al. | |
| TT | AE | US-5,810,925 | 09-22-1998 | Tadatomo et al. | |
| TT | AF | US-5,838,707 | 11-17-1998 | Ramdani et al. | |
| TT | AG | US-5,874,747 | 02-23-1999 | Redwing et al. | |
| TT | AH | US-5,877,038 | 03-02-1999 | Coldren et al. | |
| TT | AI | US-5,962,975 | 10-05-1999 | Motoki et al. | |
| TT | AJ | US-5,977,612 | 11-02-1999 | Bour et al. | |
| TT | AK | US-6,015,979 | 01-18-2000 | Sugiura et al. | |
| TT | AL | US-6,031,858 | 02-29-2000 | Hatakoshi et al. | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. | Foreign Patent Document Country Code-Number Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
|--------------------|----------|---|--------------------------------|---|---|--------------------------|
| TT | AM | PCT - WO 01/37351 A1 | 05-25-2001 | Cree Lighting Co. | | <input type="checkbox"/> |
| TT | AN | PCT - WO 01/24285 A1 | 04-05-2001 | Lumileds Lighting U.S. LLC | | <input type="checkbox"/> |
| | AO | | | | | <input type="checkbox"/> |
| | AP | | | | | <input type="checkbox"/> |

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T |
|--------------------|----------|--|--------------------------|
| TT | AQ | KAMP et al., GaN Homoepitaxy for Device Applications, Kamp et al., MRS Internet J. Nitride Semicond. Res. 4SI, G10.2 (1999) | <input type="checkbox"/> |
| TT | AR | FINI et al. <i>In situ</i> , Real-Time Measurement of Wing Tilt During Lateral Epitaxial Overgrowth of GaN; Applied Physics Letters, Volume 76, Number 26, June 26, 2000 | <input type="checkbox"/> |
| TT | AS | PELZMANN et al., Blue Light-Emitting Diodes on GaN Substrates, Growth and Characterization, Journal of Crystal Growth 189/190 (1998) 167-171 | <input type="checkbox"/> |
| TT | AT | POROWSKI, High Pressure of Crystallization of III-V Nitrides, ACTA Physica Polonica A, Vol. 87 (1995), No. 2 | <input type="checkbox"/> |
| TT | AU | KIM et al. Crystal tilting in GaN Grown by Pendeopitaxy Method on Sapphire Substrate, Applied Physics Letters, Volume 75, Number 26, December 27, 1999 | <input type="checkbox"/> |
| TT | AV | KUAN et al., Dislocation Mechanisms in the GaN Lateral Overgrowth by Hydride Vapor Phase Epitaxy | <input type="checkbox"/> |

| | | | |
|--------------------|---|-----------------|-------|
| Examiner Signature |  | Date Considered | 05/05 |
|--------------------|---|-----------------|-------|

| | | |
|--|--------------------------|-----------------------|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S) | Complete if Known | |
| | Application Number | Unknown |
| | Filing Date | Herewith |
| | First Named Inventor | D'Evelyn |
| | Art Unit | Unknown |
| Examiner Name | Unknown | |
| Sheet 2 of 3 | Attorney Docket No. | 132852-1/GCRZ 2 00025 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|----------|--|-----------------------------|---|---|
| Examiner Initials* | Cite No. | Document No. Number-Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| TT | BA | US-6,100,586 | 08-08-2000 | Chen et al. | |
| TT | BB | US-6,140,669 | 10-31-2000 | Lozykowski et al. | |
| TT | BC | US-6,160,833 | 12-12-2000 | Floyd et al. | |
| TT | BD | US-6,255,669 | 07-03-2001 | Birkhahn et al. | |
| TT | BE | US-6,273,948 | 08-14-2001 | Porowski et al. | |
| TT | BF | US-6,280,523 | 08-28-2001 | Coman et al. | |
| TT | BG | US-6,294,440 | 09-25-2001 | Tsuda et al. | |
| TT | BH | US-6,320,206 | 11-20-2001 | Coman et al. | |
| TT | BI | US-6,339,014 | 01-15-2002 | Ishida et al. | |
| TT | BJ | US-6,398,867 | 06-04-2002 | D'Evelyn et al. | |
| TT | BK | US-6,413,627 | 07-02-2002 | Motoki et al. | |
| TT | BL | US-6,504,180 | 01-07-2003 | Heremans et al. | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|----------|--|-----------------------------|---|---|--------------------------|
| Examiner Initials* | Cite No. | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
| | | Country Code-Number Kind Code (if known) | | | | |
| | BM | | | | | <input type="checkbox"/> |
| | BN | | | | | <input type="checkbox"/> |
| | BO | | | | | <input type="checkbox"/> |
| | BP | | | | | <input type="checkbox"/> |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|----------|--|--------------------------|
| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T |
| TT | BQ | SAKAI et al., Transmission Electron Microscopy of Defects in GaN Films Formed by Epitaxial Lateral Overgrowth, Applied Physics Letters, Volume 73, Number 4, July 27, 1998 | <input type="checkbox"/> |
| TT | BR | MARCHAND et al., Microstructure of GaN Laterally Overgrown by Metalorganic Chemical Vapor Deposition, Applied Physics Letters, Volume 73, Number 6, August 10, 1998 | <input type="checkbox"/> |
| TT | BS | HORIBUCHI et al., Behavior of Threading Dislocations in SAG-GaN Grown by MOVPE, phys. Stat. sol. (a) 180, 171 (2000) | <input type="checkbox"/> |
| TT | BT | Patent Abstract of Japan, Publication No. 2000-022212, Date 21.01.2000 | <input type="checkbox"/> |
| TT | BU | D'EVELYN et al., Homoepitaxial Gallium-Nitride-Based Light Emitting Device and Method for Producing, U.S. Application Serial No. 09/694,690; Filed October 23, 2000 | <input type="checkbox"/> |
| TT | BV | D'EVELYN et al., Gallium Nitride Crystal and Method of Making Same; U.S. Application Serial No. 10/329,981 | <input type="checkbox"/> |

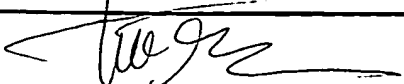
| | | | |
|--------------------|---|-----------------|-------|
| Examiner Signature |  | Date Considered | 05/05 |
|--------------------|---|-----------------|-------|

| | | | | | |
|--|--|--------------------------|-----------------------|--|--|
| Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S) | | Complete if Known | | | |
| | | Application Number | Unknown | | |
| | | Filing Date | Herewith | | |
| | | First Named Inventor | D'Evelyn | | |
| | | Art Unit | Unknown | | |
| | | Examiner Name | Unknown | | |
| Sheet 3 of 3 | | Attorney Docket No. | 132852-1/GCRZ 2 00025 | | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|----------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. | Document No. Number-Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| TT | CA | 6,507,042 | 01-14-2003 | Mukai et al. | |
| TT | CB | 6,515,308 | 02-04-2003 | Kneissl et al. | |
| TT | CC | US2002/0155634 | 10-24-2002 | D'Evelyn et al. | |
| TT | CD | US2002/0140845 | 07-31-2003 | D'Evelyn et al. | |
| TT | CE | US2003/0141301 | 07-31-2003 | D'Evelyn et al. | |
| TT | CF | US2003/0183155 | 10-02-2003 | D'Evelyn et al. | |
| | CG | | | | |
| | CH | | | | |
| | CI | | | | |
| | CJ | | | | |
| | CK | | | | |
| | CL | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|----------|---|--------------------------------|--|---|--------------------------|
| Examiner Initials* | Cite No. | Foreign Patent Document Country Code-Number Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T |
| | CM | | | | | <input type="checkbox"/> |
| | CN | | | | | <input type="checkbox"/> |
| | CO | | | | | <input type="checkbox"/> |
| | CP | | | | | <input type="checkbox"/> |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | |
|---|----------|--|--------------------------|
| Examiner Initials* | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T |
| | CQ | | <input type="checkbox"/> |
| | CR | | <input type="checkbox"/> |
| | CS | | <input type="checkbox"/> |
| | CT | | <input type="checkbox"/> |
| | CU | | <input type="checkbox"/> |
| | CV | | <input type="checkbox"/> |

| | | | |
|--------------------|---|-----------------|-------|
| Examiner Signature |  | Date Considered | 05/05 |
|--------------------|---|-----------------|-------|